

ABSTRACT

1 A full-color LED display includes red, green and blue LED elements. A first
2 substrate is used to form red and green LED elements which are then covered by a first
3 passivation layer. A second substrate is bonded to the passivation layer and polished as a
4 thin substrate layer. A blue LED element is fabricated on the thin substrate layer. The
5 three LED elements are then covered by a second passivation layer to construct a full-
6 color LED device. A full-color, high resolution and high brightness LED display is
7 formed by a plurality of full-color LED devices arranged in rows and columns in a matrix
8 form.